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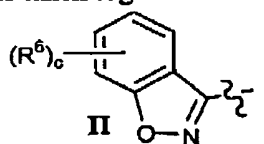
Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 has been canceled.

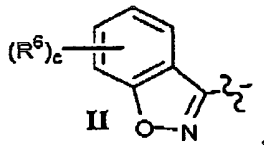
2. (previously presented) The composition of Claim 56 wherein R^1 is selected from:

- (A) aryl;
- (B) substituted aryl, wherein the substituents on said substituted aryl are selected from: (1) halo; or (2) alkyl; or (3) substituted alkyl;
- (C) heteroaryl;
- (D) substituted heteroaryl; or
- (E) when R^1 is taken together with X, then the moiety is



3. (previously presented) The composition of Claim 2 wherein R^1 is selected from:

- (A) phenyl;
- (B) substituted phenyl wherein the substituents on said substituted phenyl are selected from: (1) halo; (2) alkyl; (3) alkyl substituted with halo;
- (C) heteroaryl selected from: pyridyl, thienyl, pyrimidinyl, thiazolyl or pyridyl N-Oxide;
- (D) alkyl substituted thiazolyl; or
- (E) when R^1 is taken together with X, then the moiety is



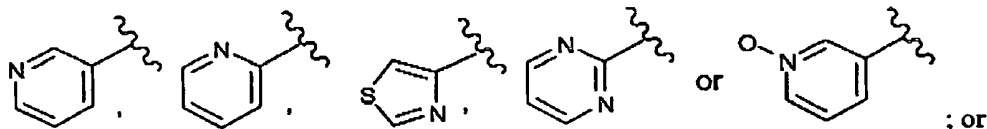
wherein c is 0 or 1, and when c is 1 then R^6 is halo.

4. (previously presented) The composition of Claim 3 wherein R^1 is selected from:

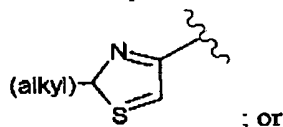
- (A) phenyl;

(B) substituted phenyl, wherein the substituents on said substituted phenyl are independently selected from: chloro, fluoro or trifluoromethyl;

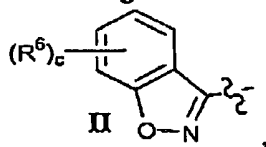
(C) heteroaryl selected from:



(D) substituted heteroaryl of the formula:



(E) when R¹ is taken together with X, then the moiety is



wherein c is 0 or 1, and when c is 1 then R⁶ is fluoro.

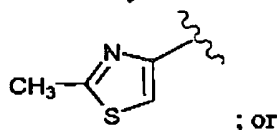
5. (previously presented) The composition of Claim 56 wherein R¹ is selected from:

(A) phenyl;

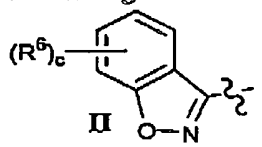
(B) substituted phenyl, wherein the substituents on said substituted phenyl are independently selected from: chloro, fluoro or trifluoromethyl;

(C) pyridyl; or

(D) substituted heteroaryl of the formula:



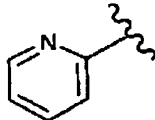
(E) when R¹ is taken together with X, then the moiety is



wherein c is 0 or 1, and when c is 1 then R⁶ is fluoro.

6. (previously presented) The composition of Claim 5 wherein R¹ is pyridyl.

7. (previously presented) The composition of Claim 6 wherein R^1 is



8. (previously presented) The composition of Claim 56 wherein X is $=C(NOR^3)$, and R^3 is selected from H or alkyl.

9. (previously presented) The composition of Claim 8 wherein R^3 is selected from H, methyl or ethyl.

10. (previously presented) The composition of Claim 9 wherein R^3 is methyl.

11. (previously presented) The composition of claim 56 wherein: (1) M^2 is nitrogen; and (2) M^3 and M^4 are selected such that: (a) one is carbon and the other is nitrogen, or (b) both are nitrogen.

12. (previously presented) The composition of Claim 11 wherein M^3 is carbon, and M^4 is nitrogen.

13. (previously presented) The composition of Claim 56 wherein:

n is 2;

a is 0 or 1;

b is 0 or 1;

c is 0 or 1, and when c is 1 then R^6 is halo;

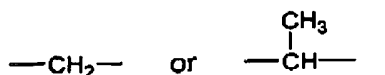
e is 1 to 5; and

p is 2.

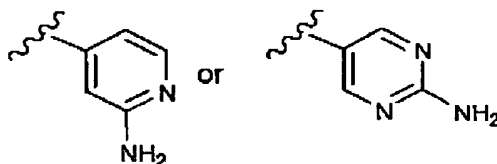
14. (previously presented) The composition of Claim 56 wherein Y is $=C(O)$.

15. (previously presented) The composition of Claim 56 wherein Z is C_1 to C_3 alkyl.

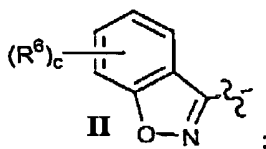
16. (previously presented) The composition of Claim 56 wherein Z is



17. (previously presented) The composition of Claim 56 wherein R^2 is a six membered heteroaryl ring.
18. (previously presented) The composition of Claim 17 wherein R^2 is selected from pyridyl, pyridyl substituted with $-\text{NR}^4\text{R}^5$, pyrimidinyl, or pyrimidinyl substituted with $-\text{NR}^4\text{R}^5$.
19. (previously presented) The composition of Claim 18 wherein R^2 is pyridyl substituted with $-\text{NH}_2$, or pyrimidinyl substituted with $-\text{NH}_2$.
20. (previously presented) The composition of Claim 19 wherein R^2 is



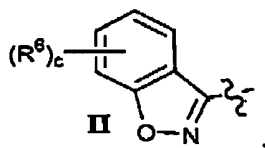
21. (previously presented) The composition of Claim 56 wherein R^4 is H or lower alkyl; R^5 is H, C_1 to C_6 alkyl, or $-\text{C}(\text{O})\text{R}^4$; R^{12} is alkyl, hydroxy or fluoro; and R^{13} is alkyl, hydroxy or fluoro.
22. (previously presented) The composition of Claim 21 wherein R^4 is H or methyl; R^5 is H or methyl; R^{12} is hydroxy or fluoro; and R^{13} is hydroxy or fluoro.
23. (previously presented) The composition of Claim 56 wherein:
- (1) R^1 is selected from:
 - (A) aryl;
 - (B) substituted aryl, wherein the substituents on said substituted aryl are selected from: (1) halo; or (2) alkyl; or (3) substituted alkyl;
 - (C) heteroaryl; or
 - (D) substituted heteroaryl; or
 - (E) when R^1 is taken together with X, then the moiety is



- (2) X is =C(NOR³);
- (3) R³ is selected from H or alkyl;
- (4) M² is nitrogen;
- (5) Y is =C(O);
- (6) M³ and M⁴ are selected such that: (1) one is carbon and the other is nitrogen, or (2) both are nitrogen;
- (7) Z is C₁ to C₃ alkyl; and
- (8) R² is a six membered heteroaryl ring.

24. (previously presented) The composition of Claim 23 wherein:

- (1) R¹ is selected from:
 - (A) phenyl;
 - (B) substituted phenyl wherein the substituents on said substituted phenyl are selected from: (1) halo; (2) alkyl; (3) alkyl substituted with halo;
 - (C) heteroaryl selected from: pyridyl, thienyl, pyrimidinyl, thiazolyl or pyridyl N-Oxide; or
 - (D) alkyl substituted thiazolyl; or
 - (E) when R¹ is taken together with X, then the moiety is



wherein c is 0 or 1, and when c is 1 then R⁶ is halo;

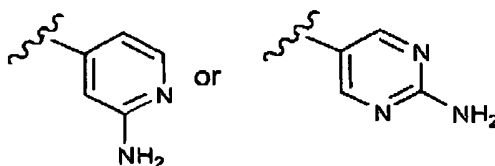
- (2) R³ is selected from H, methyl or ethyl;
- (3) n is 2,
- (4) a is 0 or 1,
- (5) b is 0 or 1,
- (6) c is 0 or 1 and when c is 1 then R⁶ is halo,
- (7) e is 1 to 5,
- (8) p is 2,
- (9) R⁴ is H or lower alkyl,

(10) R^5 is H, C_1 to C_6 alkyl, or $-C(O)R^4$;

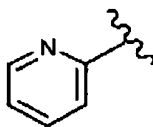
(11) R^{12} is alkyl, hydroxy or fluoro, and

(12) R^{13} is alkyl, hydroxy or fluoro.

25. (previously presented) The composition of Claim 24 wherein R^2 is



R^1 is



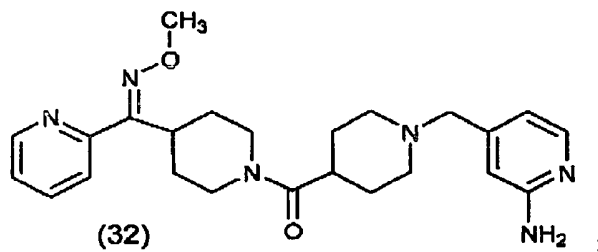
M^2 is nitrogen, M^3 is carbon, and M^4 is nitrogen.

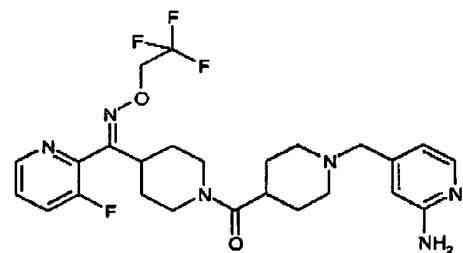
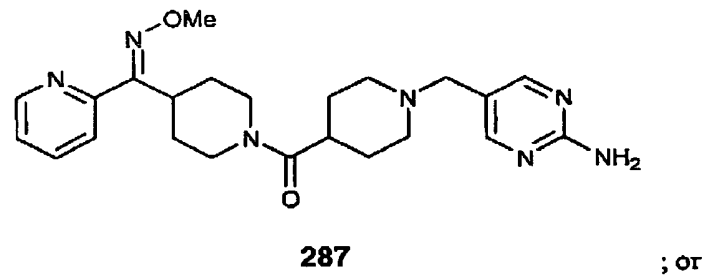
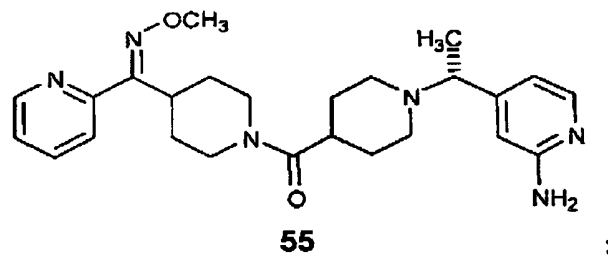
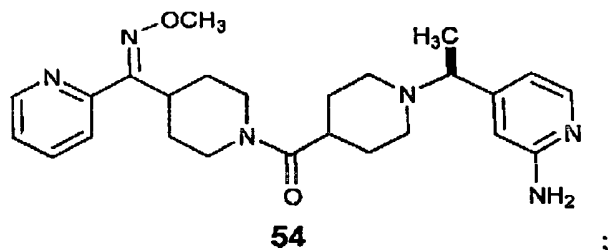
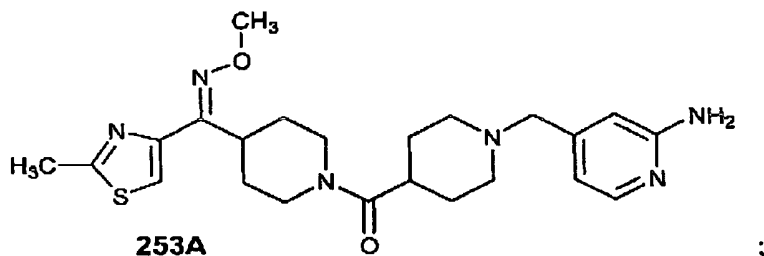
Claims 26-45 have been canceled.

46. (currently amended) The method of Claim ~~45~~ 57 wherein said H_1 receptor antagonist is selected from: loratadine or descarboethoxyloratadine.

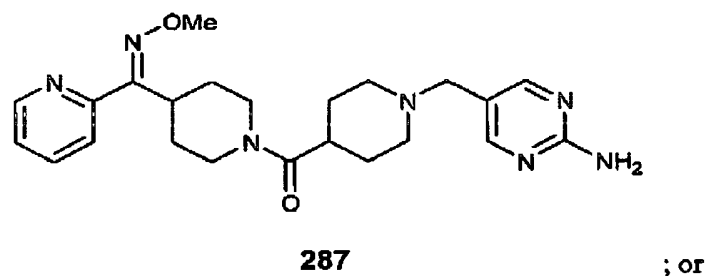
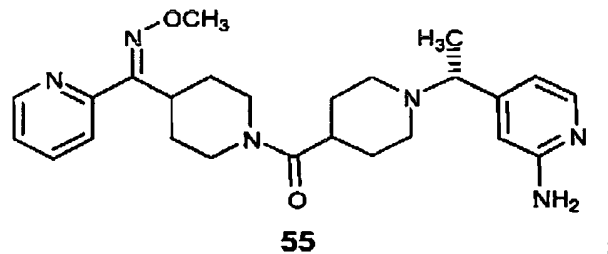
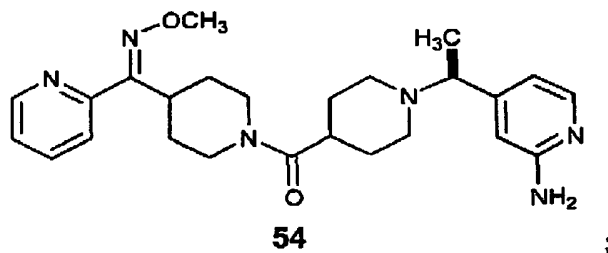
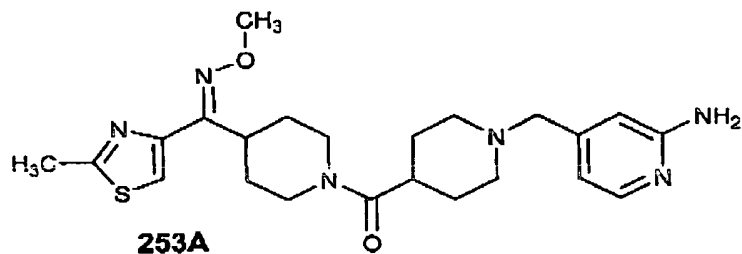
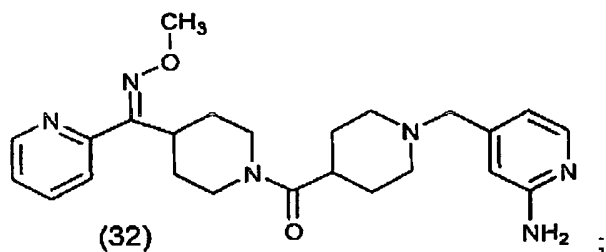
Claims 47-50 have been canceled.

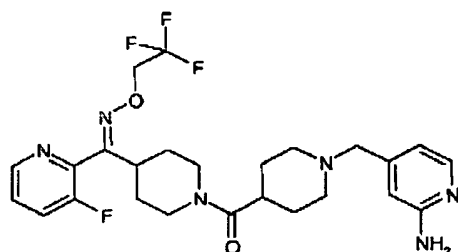
51. (previously presented) A pharmaceutical composition of Claim 56, wherein said compound of formula I is selected from:





52. (previously presented) A method of Claim 57 wherein said compound of formula I is selected from:

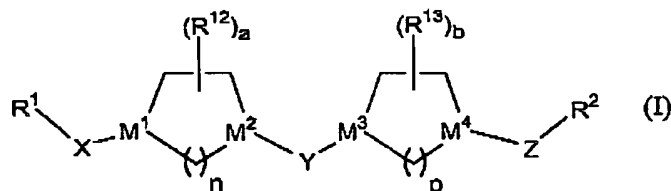




Claims 53 and 54 have been canceled.

55. (original) The method of Claim 54 wherein said H_1 receptor antagonist is selected from: loratadine or descarboethoxyloratadine.

56. (currently amended) A pharmaceutical composition comprising an effective amount of a compound of the formula I:



or a pharmaceutically acceptable salt or solvate thereof, wherein:

(1) R^1 is selected from:

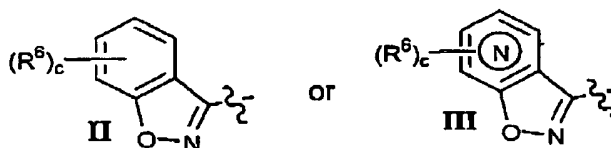
- (a) aryl;
- (b) heteroaryl;
- (c) heterocycloalkyl;
- (d) alkyl;
- (e) cycloalkyl; or
- (f) alkylaryl;

wherein said R^1 groups are optionally substituted with 1 to 4 substituents independently selected from:

- (1) halogen;
- (2) hydroxyl;
- (3) lower alkoxy;
- (4) $-CF_3$;
- (5) CF_3O- ;

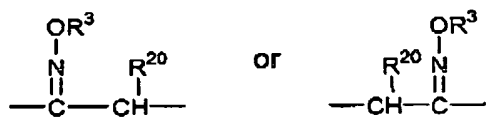
- (6) $-NR^4R^5$;
- (7) phenyl;
- (8) $-NO_2$,
- (9) $-CO_2R^4$;
- (10) $-CON(R^4)_2$ wherein each R^4 is the same or different;
- (11) $-S(O)_mN(R^{20})_2$ wherein each R^{20} is the same or different H or alkyl group;
- (12) $-CN$; or
- (13) alkyl; or

(2) R^1 and X taken together form a group selected from:



wherein \textcircled{N} represents a nitrogen atom located at one of the 4 non-fused positions of the ring;

(3) X is selected from: $=C(O)$, $=C(NOR^3)$, $=C(NNR^4R^5)$,



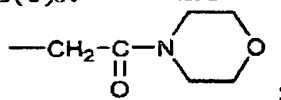
- (4) M^1 is carbon;
- (5) M^2 is selected from C or N;
- (6) M^3 and M^4 are independently selected from C or N;
- (7) Y is selected from: is $-CH_2-$, $=C(O)$, $=C(NOR^{20})$ (wherein R^{20} is as defined above), or $=C(S)$;

(8) Z is a $C_1 - C_6$ alkyl group;

(9) R^2 is a five or six-membered heteroaryl ring, said six-membered heteroaryl ring comprising 1 or 2 nitrogen atoms with the remaining ring atoms being carbon, and said five-membered heteroaryl ring containing 1 or 2 heteroatoms selected from: nitrogen, oxygen, or sulfur with the remaining ring atoms being carbon; said five or six membered heteroaryl rings being optionally substituted with 1 to 3 substituents independently selected from: halogen, hydroxyl, lower alkyl, lower alkoxy, $-CF_3$, CF_3O- , $-NR^4R^5$, phenyl, $-NO_2$, $-CO_2R^4$, $-CON(R^4)_2$ wherein each R^4 is the same or different, $-CH_2NR^4R^5$, $-(N)C(NR^4R^5)_2$, or $-CN$;

(10) R^3 is selected from:

- (a) hydrogen;
- (b) $C_1 - C_6$ alkyl;
- (c) aryl;
- (d) heteroaryl;
- (e) heterocycloalkyl;
- (f) arylalkyl;
- (g) $-(CH_2)_e-C(O)N(R^4)_2$ wherein each R^4 is the same or different,
- (h) $-(CH_2)_e-C(O)OR^4$;
- (i) $-(CH_2)_e-C(O)R^{30}$ wherein R^{30} is a heterocycloalkyl group, or



- (j) $-CF_3$; or
- (k) $-CH_2CF_3$;

wherein said aryl, heteroaryl, heterocycloalkyl, and the aryl portion of said arylalkyl are optionally substituted with 1 to 3 substituents selected from: halogen, $-OH$, $-OCF_3$, $-CF_3$, $-CN$, $-N(R^{45})_2$, $-CO_2R^{45}$, or $-C(O)N(R^{45})_2$, wherein each R^{45} is independently selected from: H, alkyl, alkylaryl, or arylalkyl wherein said aryl moiety is substituted with 1 to 3 substituents independently selected from $-CF_3$, $-OH$, halogen, alkyl, $-NO_2$, or $-CN$;

(11) R^4 is selected from: hydrogen, $C_1 - C_6$ alkyl, aryl, alkylaryl, said aryl and alkylaryl groups being optionally substituted with 1 to 3 substituents selected from: halogen, $-CF_3$, $-OCF_3$, $-OH$, $-N(R^{45})_2$, $-CO_2R^{45}$, $-C(O)N(R^{45})_2$, or $-CN$; wherein R^{45} is as defined above;

(12) R^5 is selected from: hydrogen, $C_1 - C_6$ alkyl, $-C(O)R^4$, $-C(O)_2R^4$, or $-C(O)N(R^4)_2$ wherein each R^4 is independently selected, and R^4 is as defined above;

(13) or R^4 and R^5 taken together with the nitrogen atom to which they are bound forms a five or six membered heterocycloalkyl ring;

(14) R^6 is selected from: alkyl, aryl, alkylaryl, halogen, hydroxyl, lower alkoxy, $-CF_3$, CF_3O- , $-NR^4R^5$, $-NO_2$, $-CO_2R^4$, $-CON(R^4)_2$ wherein each R^4 is the same or different, or $-CN$;

(15) R^{12} is selected from: alkyl, hydroxyl, alkoxy, or fluoro;

(16) R^{13} is selected from: alkyl, hydroxyl, alkoxy, or fluoro;

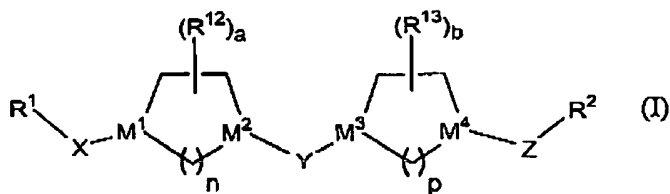
(17) a is 0 to 2;

- (18) b is 0 to 2;
- (19) c is 0 to 2;
- (20) e is 0 to 5;
- (21) m is 1 or 2;
- (22) n is 1, 2 or 3; and
- (23) p is 1, 2 or 3, with the proviso that when M³ and M⁴ are both nitrogen,

then p is 2 or 3;

and an effective amount of H₁ receptor antagonist, and a pharmaceutically effective carrier.

57. (previously presented) A method of treating: allergy, allergy-induced airway responses, and congestion comprising administering to a patient in need of such treatment an effective amount of a compound of formula I:



or a pharmaceutically acceptable salt or solvate thereof, wherein:

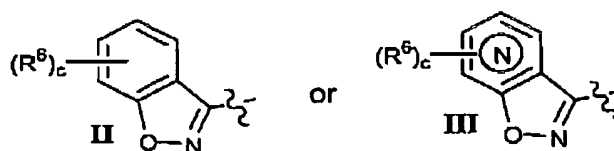
- (1) R¹ is selected from:
 - (a) aryl;
 - (b) heteroaryl;
 - (c) heterocycloalkyl
 - (d) alkyl;
 - (e) cycloalkyl; or
 - (f) alkylaryl;

wherein said R¹ groups are optionally substituted with 1 to 4 substituents independently selected from:

- (1) halogen;
- (2) hydroxyl;
- (3) lower alkoxy;
- (4) -CF₃;
- (5) CF₃O-;
- (6) -NR⁴R⁵;

- (7) phenyl;
- (8) $-\text{NO}_2$;
- (9) $-\text{CO}_2\text{R}^4$;
- (10) $-\text{CON}(\text{R}^4)_2$ wherein each R^4 is the same or different;
- (11) $-\text{S}(\text{O})_m\text{N}(\text{R}^{20})_2$ wherein each R^{20} is the same or different H or alkyl group;
- (12) $-\text{CN}$; or
- (13) alkyl; or

(2) R^1 and X taken together form a group selected from:



wherein $\textcircled{\text{N}}$ represents a nitrogen atom located at one of the 4 non-fused positions of the ring;

(3) X is selected from: $=\text{C}(\text{O})$, $=\text{C}(\text{NOR}^3)$, $=\text{C}(\text{NNR}^4\text{R}^5)$,



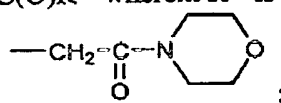
- (4) M^1 is carbon;
- (5) M^2 is selected from C or N;
- (6) M^3 and M^4 are independently selected from C or N;
- (7) Y is selected from: is $-\text{CH}_2-$, $=\text{C}(\text{O})$, $=\text{C}(\text{NOR}^{20})$ (wherein R^{20} is as defined above), or $=\text{C}(\text{S})$;

(8) Z is a $\text{C}_1 - \text{C}_6$ alkyl group;

(9) R^2 is a five or six-membered heteroaryl ring, said six-membered heteroaryl ring comprising 1 or 2 nitrogen atoms with the remaining ring atoms being carbon, and said five-membered heteroaryl ring containing 1 or 2 heteroatoms selected from: nitrogen, oxygen, or sulfur with the remaining ring atoms being carbon; said five or six membered heteroaryl rings being optionally substituted with 1 to 3 substituents independently selected from: halogen, hydroxyl, lower alkyl, lower alkoxy, $-\text{CF}_3$, $\text{CF}_3\text{O}-$, $-\text{NR}^4\text{R}^5$, phenyl, $-\text{NO}_2$, $-\text{CO}_2\text{R}^4$, $-\text{CON}(\text{R}^4)_2$ wherein each R^4 is the same or different, $-\text{CH}_2\text{NR}^4\text{R}^5$, $-(\text{N})\text{C}(\text{NR}^4\text{R}^5)_2$, or $-\text{CN}$;

(10) R^3 is selected from:

- (a) hydrogen;
- (b) C₁ – C₆ alkyl;
- (c) aryl;
- (d) heteroaryl;
- (e) heterocycloalkyl;
- (f) arylalkyl;
- (g) $-(CH_2)_e-C(O)N(R^4)_2$ wherein each R⁴ is the same or different,
- (h) $-(CH_2)_e-C(O)OR^4$;
- (i) $-(CH_2)_e-C(O)R^{30}$ wherein R³⁰ is a heterocycloalkyl group, or



- (j) -CF₃; or
- (k) -CH₂CF₃;

wherein said aryl, heteroaryl, heterocycloalkyl, and the aryl portion of said arylalkyl are optionally substituted with 1 to 3 substituents selected from: halogen, -OH, -OCF₃, -CF₃, -CN, -N(R⁴⁵)₂, -CO₂R⁴⁵, or -C(O)N(R⁴⁵)₂, wherein each R⁴⁵ is independently selected from: H, alkyl, alkylaryl, or alkylaryl wherein said aryl moiety is substituted with 1 to 3 substituents independently selected from -CF₃, -OH, halogen, alkyl, -NO₂, or -CN;

(11) R⁴ is selected from: hydrogen, C₁ – C₆ alkyl, aryl, alkylaryl, said aryl and alkylaryl groups being optionally substituted with 1 to 3 substituents selected from: halogen, -CF₃, -OCF₃, -OH, -N(R⁴⁵)₂, -CO₂R⁴⁵, -C(O)N(R⁴⁵)₂, or -CN; wherein R⁴⁵ is as defined above;

(12) R⁵ is selected from: hydrogen, C₁ – C₆ alkyl, -C(O)R⁴, -C(O)₂R⁴, or -C(O)N(R⁴)₂ wherein each R⁴ is independently selected, and R⁴ is as defined above;

(13) or R⁴ and R⁵ taken together with the nitrogen atom to which they are bound forms a five or six membered heterocycloalkyl ring;

(14) R⁶ is selected from: alkyl, aryl, alkylaryl, halogen, hydroxyl, lower alkoxy, -CF₃, CF₃O-, -NR⁴R⁵, -NO₂, -CO₂R⁴, -CON(R⁴)₂ wherein each R⁴ is the same or different, or -CN;

- (15) R¹² is selected from: alkyl, hydroxyl, alkoxy, or fluoro;
- (16) R¹³ is selected from: alkyl, hydroxyl, alkoxy, or fluoro;
- (17) a is 0 to 2;
- (18) b is 0 to 2;

- (19) c is 0 to 2;
- (20) e is 0 to 5;
- (21) m is 1 or 2;
- (22) n is 1, 2 or 3; and
- (23) p is 1, 2 or 3, with the proviso that when M^3 and M^4 are both nitrogen,

then p is 2 or 3;

in combination with an effective amount of an H_1 receptor antagonist.

Claims 58-61 have been canceled.